

U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)		Docket No. AMAT/6198	Serial No. 10/016,300
LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT		Applicant Tzu, et al.	Confirmation No.:
(Use several sheets if necessary)		Filing Date December 12, 2001	Group 1763 Unknown
Examiner Unknown ZERVIGON			

U.S. Patent Documents

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
77	A1	4,058,430	11/15/77	Suntola et al.	156	611	11/25/1975
	A2	4,389,973	06/28/83	Suntola et al.	118	725	12/11/1981
	A3	4,413,022	11/01/83	Suntola et al.	427	255.2	06/21/1979
	A4	4,486,487	12/04/84	Skarp	428	216	04/25/1983
	A5	4,767,494	08/30/88	Kobayashi et al.	156	606	09/19/1986
	A6	4,806,321	02/21/89	Nishizawa et al.	422	245	07/21/1985
	A7	4,829,022	05/09/89	Kobayashi et al.	437	107	12/09/1986
	A8	4,834,831	05/30/89	Nishizawa et al.	156	611	09/04/1987
	A9	4,838,983	06/13/89	Schumaker et al.	156	613	03/18/1988
	A10	4,838,993	06/13/89	Aoki et al.	156	643	12/03/1987
	A11	4,840,921	06/20/89	Matsumoto	437	89	06/30/1988
	A12	4,845,049	07/04/89	Sunakawa	437	81	08/28/1988
✓	A13	4,859,625	08/22/89	Nishizawa et al.	437	81	11/20/1987

Foreign Patent Documents

*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
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77	B1	01/66832 A2	09/13/2001	WO	C23C	16/44	<input type="checkbox"/>	<input type="checkbox"/>
	B2	01/40541 A1	06/07/2001	WO	C23C	16/40	<input type="checkbox"/>	<input type="checkbox"/>
	B3	01/36702 A1	05/25/2001	WO	C23C	16/00	<input type="checkbox"/>	<input type="checkbox"/>
	B4	01/29893 A1	04/26/2001	WO	H01L	21/768	<input type="checkbox"/>	<input type="checkbox"/>
✓	B5	01/29891 A1	04/26/2001	WO	H01L	21/768	<input type="checkbox"/>	<input type="checkbox"/>

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*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
77	C1	Hultman, et al., "Review of the thermal and mechanical stability of TiN-based thin films", <i>Zeitschrift Fur Metallkunde</i> , 90(10) (Oct. 1999), pp. 803-813
77	C2	Klaus, et al., "Atomic Layer Deposition of SiO ₂ Using Catalyzed and Uncatalyzed Self-Limiting Surface Reactions", <i>Surface Review & Letters</i> , 6(3&4) (1999), pp. 435-448

Examiner **Proygen** Date Considered **6/10/03**

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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Examiner Unknown Zenigou								
U.S. Patent Documents								
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
↓	A14	4,859,627	08/22/89	Sunakawa	437	81	07/01/1988	
↓	A15	4,861,417	08/29/89	Mochizuki et al.	156	610	03/24/1988	
↓	A16	4,876,218	10/24/89	Pessa et al.	437	107	09/26/1988	
↓	A17	4,927,670	05/22/1990	Erbil	427	255.3	06/22/1988	
↓	A18	4,931,132	06/05/90	Aspnes et al.	156	601	10/07/1988	
↓	A19	4,960,720	10/02/90	Shimbo	437	105	08/24/1987	
↓	A20	4,975,252	12/04/90	Nishizawa et al.	422	245	05/26/1989	
↓	A21	4,993,357	02/19/91	Scholz	118	715	12/21/1989	
↓	A22	5,013,683	05/07/91	Petroff et al.	437	110	01/23/1989	
↓	A23	5,082,798	01/21/92	Arimoto	437	108	09/27/1990	
↓	A24	5,085,885	02/04/92	Foley et al.	477	38	09/10/1990	
↓	A25	5,091,320	02/25/92	Aspnes et al.	437	8	06/15/1990	
↓	A26	5,130,269	07/14/92	Kitahara et al.	437	111	04/25/1989	
↓	A27	5,166,092	11/24/92	Mochizuki et al.	437	105	10/30/1990	
Foreign Patent Documents								
*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
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↓	B6	01/29280 A1	04/26/2001	WO	H01L	21/00	<input type="checkbox"/>	<input type="checkbox"/>
↓	B7	01/27347 A1	04/19/2001	WO	C23C	16/44	<input type="checkbox"/>	<input type="checkbox"/>
↓	B8	01/27346 A1	04/19/2001	WO	C23C	16/44	<input type="checkbox"/>	<input type="checkbox"/>
↓	B9	01/15220 A1	03/01/2001	WO	H01L	21/768	<input type="checkbox"/>	<input type="checkbox"/>
↓	B10	00/79576 A1	12/28/2000	WO	H01L	21/205	<input type="checkbox"/>	<input type="checkbox"/>
OTHER ART								
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.						
↓	C3	Yamaguchi, et al., "Atomic-layer chemical-vapor-deposition of silicon dioxide films with extremely low hydrogen content", <i>Appl. Surf. Sci.</i> , Vol. 130-132 (1998), pp. 202-207						
↓	C4	George, et al., "Surface Chemistry for Atomic Layer Growth", <i>J. Phys. Chem.</i> , Vol. 100 (1996), pp. 13121-131						
Examiner [Signature]					Date Considered 6/10/03			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								

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Examiner Unknown <u>Zervigal</u>							Unknown	

U.S. Patent Documents							
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
<u>RA</u>	A28	5,225,366	07/06/93	Yoder	437	108	06/22/1990
	A29	5,246,536	09/21/93	Nishizawa et al.	156	610	03/10/1989
	A30	5,250,148	10/05/93	Nishizawa et al.	156	611	11/12/1991
	A31	5,254,207	10/19/93	Nishizawa et al.	156	601	11/30/1992
	A32	5,256,244	10/26/93	Ackerman	156	613	02/10/1992
	A33	5,270,247	12/14/93	Sakuma et al.	437	133	07/08/1992
	A34	5,278,435	01/11/94	Van Hove et al.	257	184	06/08/1992
	A35	5,281,274	01/25/94	Yoder	118	697	02/04/1993
	A36	5,290,748	03/01/94	Knuuttila et al.	502	228	07/16/1992
	A37	5,294,286	03/15/94	Nishizawa et al.	156	610	01/12/1993
	A38	5,296,403	03/22/94	Nishizawa et al.	437	133	10/23/1992
	A39	5,300,186	04/05/94	Kitahara et al.	156	613	04/07/1992
<u>RA</u>	A40	5,311,055	05/10/94	Goodman et al.	257	593	11/22/1991

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*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							YES	NO
<u>RA</u>	B11	00/79019 A1	12/28/2000	WO	C23C	16/00	<input type="checkbox"/>	<input type="checkbox"/>
	B12	00/63957 A1	10/26/2000	WO	H01L	21/205	<input type="checkbox"/>	<input type="checkbox"/>
	B13	00/54320A1	09/14/2000	WO	H01L	21/44	<input type="checkbox"/>	<input type="checkbox"/>
	B14	00/16377 A2	03/23/2000	WO	H01L		<input type="checkbox"/>	<input type="checkbox"/>
<u>RA</u>	B15	00/15881 A2	03/23/2000	WO	C30B		<input type="checkbox"/>	<input type="checkbox"/>

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<u>RA</u>	C5	George, et al., "Atomic layer controlled deposition of SiO ₂ and Al ₂ O ₃ using ABAB... binary reaction sequence chemistry", <i>Appl. Surf. Sci.</i> , Vol. 82/83 (1994), pp. 460-467
<u>RA</u>	C6	Wise, et al., "Diethyldiethoxysilane as a new precursor for SiO ₂ growth on silicon", <i>Mat. Res. Soc. Symp. Proc.</i> , Vol. 334 (1994), pp. 37-43
Examiner <u>RA</u>		Date Considered <u>6/10/3</u>

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*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
RR	A41	5,316,615	05/31/94	Copel	117	95	03/09/1993	
	A42	5,316,793	05/31/94	Wallace et al.	427	248.1	07/27/1992	
	A43	5,330,610	07/19/94	Eres et al.	117	86	05/28/1993	
	A44	5,336,324	08/09/94	Stall et al.	118	719	12/04/1991	
	A45	5,338,389	08/16/94	Nishizawa et al.	117	89	04/21/1993	
	A46	5,348,911	09/20/94	Jurgensen et al.	117	91	04/26/1993	
	A47	5,374,570	12/20/94	Nasu et al.	437	40	08/19/1993	
	A48	5,395,791	03/07/95	Cheng et al.	437	105	10/20/1993	
	A49	5,438,952	08/08/1995	Otsuka	117	84	01/31/1994	
	A50	5,439,876	08/08/95	Graf et al.	505	447	08/16/1993	
	A51	5,441,703	08/15/95	Jurgensen	422	129	03/29/1994	
	A52	5,443,033	08/22/95	Nishizawa et al.	117	86	03/11/1994	
	A53	5,443,647	08/22/95	Aucoin et al.	118	723 ME	07/11/1994	
✓	A54	5,455,072	10/03/95	Bension et al.	427	255.7	11/18/1992	
Foreign Patent Documents								
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RR	B16	00/15865	03/23/2000	WO	C23C	16/00	<input type="checkbox"/>	<input type="checkbox"/>
	B17	99/41423	08/19/1999	WO	C23C		<input type="checkbox"/>	<input type="checkbox"/>
✓	B18	99/29924	06/17/1999	WO	C23C	16/04	<input type="checkbox"/>	<input type="checkbox"/>
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*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.						
RR	C7	Niinisto, et al., "Synthesis of oxide thin films and overlayers by atomic layer epitaxy for advanced applications", <i>Mat. Sci. & Eng.</i> , Vol. B41 (1996), pp. 23-29						
RA	C8	Ritala, et al., "Perfectly conformal TiN and Al ₂ O ₃ films deposited by atomic layer deposition", <i>Chemical Vapor Deposition</i> , Vol. 5(1) (January 1999), pp. 7-9						
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U.S. Patent Documents							
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
RZ	A55	5,458,084	10/17/95	Thorne et al.	117	89	12/09/1993
	A56	5,469,806	11/28/95	Mochizuki et al.	117	97	08/20/1993
	A57	5,480,818	01/02/96	Matsumoto et al.	437	40	02/09/1993
	A58	5,483,919	01/16/96	Yokoyama et al.	117	89	08/17/1994
	A59	5,484,664	01/16/96	Kitahara et al.	428	641	01/21/1994
	A60	5,503,875	04/02/96	Imai et al.	427	255.3	03/17/1994
	A61	5,521,126	05/28/96	Okamura et al.	437	235	06/22/1994
	A62	5,527,733	06/18/96	Nishizawa et al.	437	160	02/18/1994
	A63	5,532,511	07/02/96	Nishizawa et al.	257	627	03/23/1995
	A64	5,540,783	07/30/96	Eres et al.	118	725	05/26/1994
	A65	5,601,651	02/11/97	Watabe	118	715	12/14/1994
	A66	5,616,181	04/01/97	Yamamoto et al.	118	723 ER	11/21/1995
✓	A67	5,637,530	06/10/97	Gaines et al.	114	105	06/10/1996

Foreign Patent Documents								
*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
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RZ	B19	96/18756	06/20/1996	WO	C23C	16/08	<input type="checkbox"/>	<input type="checkbox"/>
	B20	96/17107	06/06/1996	WO	C23C	16/44	<input type="checkbox"/>	<input type="checkbox"/>
	B21	93/0211	02/04/1993	WO	C08F	4/78	<input type="checkbox"/>	<input type="checkbox"/>
↓	B22	91/10510	07/25/1991	WO	B01J	37/02	<input type="checkbox"/>	<input type="checkbox"/>

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*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
RZ	C9	Klaus, et al., "Atomically controlled growth of tungsten and tungsten nitride using sequential surface reactions". <i>Appl. Surf. Sci.</i> , Vol 162-163 (July 1999), pp. 479-491
RA	C10	Klaus, et al., "Atomically controlled growth of tungsten and tungsten nitride using sequential surface reactions", <i>Fifth Int'l Symp. On Atomically Controlled Surfaces, Interfaces and Nanostructures</i> (July 6-9, 1999), Aix en Provence, France
Examiner Andrew Zervign		Date Considered 6/10/03

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U.S. Patent Documents								
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
117	A68	5,641,984	06/24/97	Aftergut et al.	257	433	08/19/1994	
	A69	5,644,128	07/01/97	Wollnik et al.	250	251	08/25/1994	
	A70	5,693,139	12/02/97	Nishizawa et al.	117	89	06/15/1993	
	A71	5,705,224	01/06/98	Murota et al.	427	248.1	01/31/1995	
	A72	5,707,880	01/13/98	Aftergut et al.	437	3	01/17/1997	
	A73	5,711,811	01/27/98	Suntola et al.	118	711	11/28/1995	
	A74	5,730,802	03/24/98	Ishizumi et al.	118	719	12/27/1996	
	A75	5,747,113	05/05/98	Tsai	427	255.5	07/29/1996	
	A76	5,749,974	05/12/98	Habuka et al.	118	725	07/13/1995	
	A77	5,796,116	08/18/98	Nakata et al.	257	66	07/25/1995	
	A78	5,807,792	09/15/98	Ilg et al.	438	758	12/18/1996	
	A79	5,830,270	11/03/98	McKee et al.	117	106	08/05/1996	
✓	A80	5,835,677	11/10/98	Li et al.	392	401	10/03/1996	
Foreign Patent Documents								
*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
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117	B23	0 799 641 A2	10/08/1997	EP	B01J	20/32	<input type="checkbox"/>	<input type="checkbox"/>
	B24	0 442 290 A1	02/14/1991	EP	C30B	25/02	<input type="checkbox"/>	<input type="checkbox"/>
	B25	0 344 352 A1	06/03/1988	EP	H01L	39/24	<input type="checkbox"/>	<input type="checkbox"/>
	B26	62-091,495	04/25/1987	JP	C30B	25/02	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.						
117	C11	Min, et al., "Atomic layer deposition of TiN thin films by sequential introduction of a precursor and NH/sub3", Symp.: Advanced Interconnects and Contact Materials and Processes for Future Integrated Circuits (Apr. 13-16, 1998), pp. 337-342						
	C12	Min, et al., "Metal-Organic Atomic-Layer Deposition of Titanium-Silicon-Nitride Films", Applied Physics Letters, American Inst. Of Physics, Vol 75(11) (Sept. 13, 1999)						
Examiner <i>Prody</i>					Date Considered 6/10/03			
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DZ	A81	5,851,849	12/22/98	Comizzoli et al.	438	38	05/22/1997
	A82	5,855,675	01/05/99	Doering et al.	118	719	03/03/1997
	A83	5,855,680	01/05/99	Soininen et al.	118	719	11/28/1995
	A84	5,858,102	01/12/99	Tsai	118	719	02/14/1998
	A85	5,879,459	03/09/99	Gadgil et al.	118	715	08/29/1997
	A86	5,904,565	05/18/1999	Nguyen, et al.	438	687	07/17/1997
	A87	5,916,365	06/29/99	Sherman	117	92	08/16/1996
	A88	5,923,056	07/13/99	Lee et al.	257	192	03/12/1998
	A89	5,923,985	07/13/99	Aoki et al.	438	301	01/14/1997
	A90	5,925,574	07/20/99	Aoki et al.	437	31	04/10/1992
	A91	5,942,040	08/24/99	Kim et al.	118	726	08/27/1997
	A92	5,947,710	09/07/1999	Cooper, et al.	418	63	06/16/1997
	✓	A93	5,972,430	10/26/99	DiMeo, Jr. et al.	427	255.32

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DZ	B27	60-065712A	04/15/1985	JP	C01B	33/113	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B28	03-048421	03/01/1991	JP	H01L	21/302	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B29	03-286531	12/17/1991	JP	H01L	21/316	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
DZ	C13	Maertensson, et al., "Atomic Layer Epitaxy of Copper on Tantalum", <i>Chemical Vapor Deposition</i> , 3(1) (Feb. 1, 1997), pp. 45-50
	C14	Ritala, et al. "Atomic Layer Epitaxy Growth of TiN Thin Films", <i>J. Electrochem. Soc.</i> , 142(8) (Aug. 1995), pp. 2731-737
	C15	Elers, et al., "NbC15 as a precursor in atomic layer epitaxy", <i>Appl. Surf. Sci.</i> , Vol. 82/83 (1994), pp. 468-474

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DR	A94	6,001,669	Gaines et al.	438	102	07/21/1992
	A95	6,015,590	Suntola et al.	427	255.23	11/28/1995
	A96	6,025,627	Forbes et al.	257	321	05/29/1998
	A97	6,036,773	Wang et al.	117	97	03/27/1997
	A98	6,042,652	Hyun et al.	118	719	09/07/1999
	A99	6,043,177	Falconer et al.	502	4	01/21/1997
	A100	6,124,158	Dautartas et al.	438	216	06/08/1999
	A101	6,113,977	Soininen et al.	427	64	09/11/1997
	A102	6,130,147	Major et al.	438	604	03/18/1997
	A103	6,139,700	Kang et al.	204	192.17	09/30/1998
	A104	6,174,377	Doering, et al.	118	729	01/04/1999
✓	A105	6,174,809	Kang, et al.	438	682	12/15/1998

Foreign Patent Documents

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						YES	NO
DR	B30	04-031396	JP	C30B	25/14	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	B31	06-291048	JP	H01L	21/205	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B32	08-264530	JP	H01L	21/3205	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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U.S. Department of Commerce, Patent and Trademark Office		Docket No.	Serial No.
(PTO Form 1449 modified)		AMAT/6198	10/016,300
LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT		Applicant	Confirmation No.:
		Tzu, et al.	
(Use several sheets if necessary)		Filing Date	Group 1703
Examiner Unknown Zervigon		December 12, 2001	Unknown

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*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							YES	NO
11/2	B33	11-269652	10/05/1999	JP	C23C	16/44	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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	B35	198 20 147A1	07/01/1999	DE	H01L	21/3205	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT		Applicant Tzu, et al.	Confirmation No.:
(Use several sheets if necessary)		Filing Date December 12, 2001	Group 1703 Unknown
Examiner Unknown Zervigon			

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	B38	2.692.597	12/24/1993	FR	C23C	16/00	<input checked="" type="checkbox"/>	<input type="checkbox"/>
✓	B39	2 355 727A	05/02/12001	GB	C23C	16/44	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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Examiner <i>David Zervigon</i>	Date Considered 6/10/3
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